## WHAT IS CLAIMED IS:

A base station for providing a packet data service to a mobile station using at least one Walsh code of a plurality of quasi-orthogonal Walsh codes or a
 plurality of orthogonal Walsh codes to increase a data rate in a mobile communication system where the base station assigns the plurality of orthogonal Walsh codes to the mobile station, comprising:

an orthogonal Walsh code space information(WSI) generator for generating information about the orthogonal Walsh codes for the packet data service :

- a carrier-to-interference (C/I) acquirer for receiving C/I information from the mobile station;
- a first determiner for receiving the orthogonal Walsh code information and the C/I information from the orthogonal Walsh code space information generator and the C/I acquirer and determining a first data rate of the case that use the orthogonal Walsh codes;
  - a second determiner for receiving the C/I information from the C/I acquirer and determining a second data rate of the case that use the quasi-orthogonal Walsh codes; and
- a data rate selector for selecting a higher data rate of the first data rate and 20 the second data rate .
- The base station of claim 1, further comprising a power reduction factor calculator for calculating a power reduction factor by which transmission power is decreased when using the quasi-orthogonal Walsh codes and outputting the
   power reduction factor to the second determiner to determine the second data rate.
  - 3. The base station of claim 1, further comprising an information

transmitter for generating information about the data rate selected by the data rate selector and quasi-orthogonal Walsh code usage state information that indicates whether the quasi-orthogonal Walsh codes are used or not and transmitting the generated information to the mobile station.

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4. The base station of claim 3, further comprising a block encoder for encoding the data rate information and the quasi-orthogonal Walsh code usage state information from the information transmitter, and a signal point mapper for mapping the output of the block encoder.

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5. A mobile station for determining a data rate for a packet data service using at least one Walsh code of a plurality of orthogonal Walsh codes or a plurality of quasi-orthogonal Walsh codes to increase a data rate in a mobile communication system where the base station assigns the plurality of orthogonal

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Walsh codes to the mobile station, comprising:

- an orthogonal Walsh code space information(WSI) receiver for receiving information about the orthogonal Walsh codes for the packet data service;
- a C/I measurer for measuring the C/I of a packet signal received from the 20 base station;
  - a first determiner for receiving the orthogonal Walsh code information and the C/I information from the orthogonal Walsh code space information receiver and the C/I measurer and determining a first data rate of the case that use the orthogonal Walsh codes;
- a second determiner for receiving the C/I information from the C/I measurer and determining a second data rate of the case that use the quasi-orthogonal Walsh codes; and

a data rate selector for selecting a higher data rate of the first data rate and the second data rate .

- The mobile station of claim 5, further comprising a power reduction
   factor calculator for calculating a power reduction factor by which transmission power is decreased when using the quasi-orthogonal Walsh codes and outputting the power reduction factor to the second determiner to determine the second data rate.
- 7. The mobile station of claim 5, further comprising an information transmitter for generating information about the data rate selected by the data rate selector and quasi-orthogonal Walsh code usage state information that indicates whether the quasi-orthogonal Walsh codes are used or not, and transmitting the generated information to the base station.
- 15 8. The mobile station of claim 7, further comprising a block encoder for encoding the data rate information and the quasi-orthogonal Walsh code usage state information from the information transmitter, and a signal point mapper for mapping the output of the block encoder.
- 9. A method for a base station of providing a packet data service to a mobile station using at least one Walsh code of a plurality of quasi-orthogonal Walsh codes or a plurality of orthogonal Walsh codes to increase a data rate in a mobile communication system where the base station assigns the plurality of orthogonal Walsh codes to the mobile station, comprising the steps of:
- generating information about the orthogonal Walsh codes for the packet data service ;

receiving C/I information from the mobile station;

determining a first data rate in the case of using the orthogonal Walsh codes based on the orthogonal Walsh code information and the C/I information;

determining a second data rate in the case of using the quasi-orthogonal Walsh codes based on the C/I information; and

- 5 selecting a higher data rate of the first data rate and the second data rate.
- 10. The method for determining the second data rate of claim 9, further comprising the step of calculating a power reduction factor by which transmission power is decreased when using the quasi-orthogonal Walsh codes and determining the second data rate based on the C/I information and the power reduction factor.
- 11. The method of claim 9, further comprising the step of generating information about the selected data rate and quasi-orthogonal Walsh code usage state information that indicates whether the quasi-orthogonal Walsh codes are used or not and transmitting the generated information to the mobile station.
- 12. A method of determining a data rate for a packet data service in a mobile station using at least one Walsh code of a plurality of quasi-orthogonal Walsh codes or a plurality of orthogonal Walsh codes to increase a data rate in a mobile communication systems where a base station assigns the plurality of orthogonal Walsh codes to the mobile station, comprising the steps of:

receiving information about the orthogonal Walsh codes for the packet data service;

measuring the C/I of a packet signal received from the base station;

determining a first data rate in the case of using the orthogonal Walsh codes based on the orthogonal Walsh code information and the C/I information;

determining a second data rate in the case of using the quasi-orthogonal

Walsh codes based on the C/I information; and selecting a higher data rate of the first data rate and the second data rate.

- 13. The method for determining the second data rate of claim 12,
  5 further comprising the step of calculating a power reduction factor by which transmission power is decreased when using the quasi-orthogonal Walsh codes and determining the second data rate based on the C/I information and the power reduction factor.
- 10 14. The method of claim 12, further comprising the step of generating information about the selected data rate and quasi-orthogonal Walsh code usage state information that indicates whether the quasi-orthogonal Walsh codes are used or not, and transmitting the generated information to the base station.